

AMENDMENTS TO THE CLAIMS

The claims have been reproduced in their entirety with appropriate indications of their respective statuses.

1. (Currently Amended) A dielectric coating for use on a conductive substrate comprising:  
a ~~silicone composition~~ silsesquioxane polymer of the formula:



wherein  $x=1-4$  and wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy groups ~~or a combination~~ and combinations of the above, or monovalent radicals independently selected from alkyl, aryl, alkylamide, arylamide, alkylamino groups ~~and or~~ or arylamino radicals;

said dielectric coating having a network structure.

2. (Currently Amended) The dielectric coating of claim 1 wherein the ~~silicone composition comprises a~~ silsesquioxane polymer compound of the formula ~~comprises:~~



wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy ~~or a combination~~ and combinations of the above or monovalent radicals independently selected from alkyl, aryl, alkylamide, arylamide, alkylamino groups ~~and or~~ or arylamino radicals.

3. (Currently Amended) The dielectric coating of claim 2 wherein the silsesquioxane ~~compound~~ polymer further includes silanol units of the formula:  $[RSi(OH)_xO_y]$  where  $x+y=3$  and which can be silylated with appropriate organosiloxanes to produce corresponding silylated polysilsesquioxanes.

4. (Currently Amended) The dielectric coating of claim 1 wherein the ~~silicone composition~~ silsesquioxane polymer comprises a polymethyl silsesquioxane of the formula:  $[CH_3SiO_{(3/2)}]_n$ .

5. (Currently Amended) ~~The A dielectric coating of claim 1 wherein the silicone composition comprises for use on a conductive substrate comprising a silsesquioxane copolymer of the formula:  $R^1_a R^2_b R^3_c SiO_{(4+a+b+c)/2}$ , wherein: a is zero or a positive number, b is zero or a positive number, c is zero or a positive number, with the provisos that  $0.8 \leq (a+b+c) \leq 3.0$  and wherein the copolymer has an average of at least two  $R^1$  groups per molecule, and each  $R^1$  is a functional group independently selected from the group consisting of hydrogen atoms and monovalent hydrocarbon groups having aliphatic unsaturation, and each  $R^2$  and each  $R^3$  are monovalent hydrocarbon groups independently selected from the group consisting of nonfunctional groups and  $R^1$ , said dielectric coating having a network structure.~~
6. (Original) The dielectric coating of claim 5 wherein  $R^1$  is an alkenyl group and  $R^2$  and  $R^3$  are nonfunctional groups selected from the group consisting of alkyl and aryl groups.
7. (Original) The dielectric coating of claim 6 wherein  $R^1$  is selected from the group consisting of vinyl and allyl groups.
8. (Original) The dielectric coating of claim 6 wherein  $R^2$  and  $R^3$  are selected from the group consisting of methyl, ethyl, isopropyl, n-butyl, and isobutyl groups.
9. (Currently Amended) The dielectric coating of claim 1 wherein the ~~silicone composition~~ silsesquioxane polymer comprises a phenyl-methyl siloxane compound of the formula:  
[ $(MeSiO_{3/2})_{0.25}(PhSiO_{3/2})_{0.15}(Ph_2SiO)_{0.10}(MePhSiO)_{0.50}$ ].
10. (Currently Amended) A substrate comprising:  
a flexible conductive material;  
a dielectric coating disposed on a surface of the flexible conductive material;  
said dielectric coating comprising a ~~silicone composition~~ silsesquioxane polymer of the formula:  $[R_x SiO_{(4-x)/2}]_n$   
wherein  $x=1-4$  and wherein R comprises a compound selected from the group consisting of methyl, phenyl, hydrido, hydroxyl, alkoxy groups ~~or a combination and combinations~~ of the

above or monovalent radicals independently selected from alkyl, aryl, alkylamide, arylamide, alkylamino groups ~~and or~~ arylamino radicals;

said dielectric coating having a network structure.

11. (Currently Amended) The substrate of claim 10 wherein the ~~silicone composition~~  
silsesquioxane polymer comprises a ~~silsesquioxane~~ compound of the formula:



wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy ~~or a combination~~ and combinations of the above, or monovalent radicals independently selected from alkyl, aryl,  $\pi$ -alkylamide arylamide, alkylamino groups ~~and or~~ arylamino radicals.

12. (Currently Amended) The substrate of claim 11 wherein the silsesquioxane ~~compound~~  
polymer further includes silanol units of the formula:



where  $x+y=3$  and which can be silylated with appropriate organosiloxanes to produce corresponding silylated polysilsesquioxanes.

13. (Currently Amended) The substrate of claim 10 wherein the ~~silicone composition~~  
silsesquioxane polymer comprises a polymethyl silsesquioxane of the formula:  $[\text{CH}_3\text{SiO}_{(3/2)}]_n$ .

14. (Currently Amended) ~~The A substrate of claim 10 wherein the silicone composition~~  
comprises comprising a flexible conductive material, and a dielectric coating disposed on one surface of the flexible conductive material, the dielectric coating comprising a silsesquioxane copolymer of the formula:



wherein: a is zero or a positive number, b is zero or a positive number, c is zero or a positive number, with the provisos that  $0.8 \leq (a+b+c) \leq 3.0$  and wherein the copolymer has an average of at least 2  $\text{R}^1$  groups per molecule, and each  $\text{R}^1$  is a functional group independently selected from the group consisting of hydrogen atoms and monovalent hydrocarbon groups

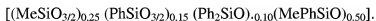
having aliphatic unsaturation, and each  $R^2$  and each  $R^3$  are monovalent hydrocarbon groups independently selected from the group consisting of nonfunctional groups and  $R^1$ , said dielectric coating having a network structure.

15. (Original) The substrate of claim 14 wherein  $R^1$  is an alkenyl group and  $R^2$  and  $R^3$  are nonfunctional groups selected from the group consisting of alkyl and aryl groups.

16. (Original) The substrate of claim 15 wherein  $R^1$  is selected from the group consisting of vinyl and allyl groups.

17. (Original) The substrate of claim 15 wherein  $R^2$  and  $R^3$  are selected from the group consisting of methyl, ethyl, isopropyl, n-butyl, and isobutyl groups.

18. (Currently Amended) The ~~substrate~~ dielectric coating of claim 1 wherein the ~~silicone composition~~ silsesquioxane polymer comprises a phenyl-methyl siloxane compound of the formula:



19. (Currently Amended) The dielectric coating of claim 1, wherein the ~~silicone composition~~ silsesquioxane polymer further comprises a reinforcing filler.

20. (Previously Presented) The dielectric coating of claim 19, wherein the reinforcing filler comprises colloidal silica particles having a size of from 5 to 150 nm.

21. (Currently Amended) The substrate of claim 10, wherein the ~~silicone composition~~ silsesquioxane polymer further comprises a reinforcing filler.

22. (Previously Presented) The substrate of claim 21, wherein the reinforcing filler comprises colloidal silica particles having a size of from 5 to 150 nm.